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JAS-ANZ
ISO 9001:2000 CERTIFIED

Date:23.12.2020

Job No.: CQCE/BBMP/RG/16/2020-2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri.Rangashamaiah,** Contractor, Bangalore.
Name of Work : Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Sample ID: : Cement (ACC 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: :November-2020
Date of Testing 21.12.2020 to 23.12.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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Job No.: CQCE/BBMP/RG/16/2020-2021

Date 23.12.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri.Rangashamaiah,** Contractor, Bangalore.
Name of Work : Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Date of Testing 23.12.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	124	12.40	20.90	79.1	75-100
1.18	168	16.80	37.70	62.3	55-90
600 Micron	235	23.50	61.20	38.8	35-59
300 Micron	172	17.20	78.40	21.6	8-30
150 Micron	189	18.90	97.30	2.7	0-10

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Job No.: CQCE/BBMP/RG/16/2020-2021

Date 23.12.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri.Rangashamaiah,** Contractor, Bangalore.

Name of Work : Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Date of Testing 23.12.2020

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	192	1.28	1.28	98.72	95-100
20	8632	57.55	58.83	41.17	30-70
10	3321	22.14	80.97	19.03	10-35
4.75	2547	16.98	97.95	2.05	0-5

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Job No.: CQCE/BBMP/RG/16/2020-2021

Date 23.12.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri.Rangashamaiah,** Contractor, Bangalore.
Name of Work : Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore
Date of Testing 23.12.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	205	4.1	4.1	95.9	95-100
10	2698	54.0	58.1	41.9	25-55
4.75	1632	32.6	90.7	9.3	0-10

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date 23.12.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency **Sri.Rangashamaiah,** Contractor, Bangalore.
Name of Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore
Date of Testing 23.12.2020
Material : Sand(Plastering) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	12	1.20	1.20	98.8	95-100
2.36	18	1.80	3.00	97.0	95-100
1.18	32	3.20	6.20	93.8	90-100
600 Micron	78	7.80	14.00	86.0	80-100
300 Micron	264	26.40	40.40	59.6	20-65
150 Micron	502	50.20	90.60	9.4	0-15

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date 23.12.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency Sri.Rangashamaiah, Contractor, Bangalore.
Name of Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Date of Testing 23.12.2020
Material : Sand(Masonry) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	35	3.50	5.30	94.7	70-100
600 Micron	82	8.20	13.50	86.5	40-100
300 Micron	271	27.10	40.60	59.4	5-70
150 Micron	465	46.50	87.10	12.9	0-15

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date 23.12.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency **Sri.Rangashamaiah,** Contractor, Bangalore.
Name of Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore
Steel Dia/Length : 8mm,10mm," TMT"
Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test 23.12.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	510	618	1.21	13.5
2	TMT	10	0.618	526	635	1.21	16

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date:23.12.2020

TEST REPORT ON CPVC PIPE

Client **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency **Sri.Rangashamaiah,** Contractor, Bangalore.

Name of Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 15mm dia

Date of Testing 22.12.2020 to 23.12.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	15.9	15.9 mm
2	Mean Outside Diameter (mm)	15.8	Min 15.8 mm Max 16 mm
3	Outside Diameter at Any Point (mm)	15.9	Min 15.8 mm Max 16 mm
4	Density	1485 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date:23.12.2020

TEST REPORT ON CPVC PIPE

Client **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency **Sri.Rangashamaiah,** Contractor, Bangalore.

Name of Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 22.12.2020 to 23.12.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.2	22.2 mm
2	Mean Outside Diameter (mm)	22.3	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.1	Min 22 mm Max 22.4 mm
4	Density	1525 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/RG/16/2020-2021 23.12.2020

TEST REPORT ON CPVC PIPE

Client Executive Engineer, RR Nagar Division,BBMP, Bangalore.

Agency Sri.Rangashamaiah, Contractor, Bangalore.

Name of Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 25mm dia

Date of Testing 22.12.2020 to 23.12.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	28.6	28.6 mm
2	Mean Outside Diameter (mm)	28.5	Min 28.5 mm Max 28.7 mm
3	Outside Diameter at Any Point (mm)	28.4%	Min 28.4 mm Max 28.8 mm
4	Density	1465 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date 25.12.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency **Sri.Rangashamaiah,** Contractor, Bangalore.

Name of the Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Date of Testing 24.12.2020 to 25.12.2020

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	15.6	145.6	3.64	1950.00	Minimum required Compressive Strength of Individual Units 3.50N/mm^2
2	Block 2	16.7	151.3	3.78	2087.50	
3	Block 3	17.8	155.4	3.89	2225.00	
4	Block 4	18.9	158.7	3.97	2362.50	

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date 25.12.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency **Sri.Rangashamaiah,** Contractor, Bangalore.

Name of the Work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Date of Testing 24.12.2020 to 25.12.2020

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.5	218.5	3.64	2041.67	Minimum required Compressive Strength of Individual Units 3.50N/mm^2
2	Block 2	25.6	221.6	3.69	2133.33	
3	Block 3	27.8	228.7	3.81	2316.67	
4	Block 4	28.2	232.5	3.88	2350.00	

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date: 29.12.2020

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client	**Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	**Sri.Rangashamaiah,** Contractor, Bangalore.
Name of Work	Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore
Reference to BIS codes	: IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	24.12.2020 to 29.12.2020

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.6	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.2	
3	5.3	
4	5.4	
5	5.8	
Average of 5 bricks	5.5	

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.2	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.3	
3	10.8	
4	10.6	
5	10.5	
Average of 5 bricks	10.5	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4660	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1420	1360 to 1440 mm

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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/RG/16/2020-2021 Date 25.01.2021

TEST REPORT ON CERAMIC TILES

*Client	**Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
*Agency	**Sri.Rangashamaiah,** Contractor, Bangalore.
*Name of Work	Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore
Technical Reference	: IS: 13630 - 2006 - Method of Testing Ceramic Tiles IS 15622 - 2006 - Specification of Ceramic Tiles
No. of Samples Tested	: 05 (Five)
Date of Testing	19.01.2021 to 25.01.2021

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	47.8	47.30	Average 47, indivisual minimum 44 N/mm^2
2	300x300x5.3	46.5		
3	300x300x5.5	48.2		
4	300x300x5.6	46.9		
5	300x300x5.4	47.1		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	No visible effect	Class AA, min (13630 Part 8)
2	300x300x5.3	No visible effect	
3	300x300x5.5	No visible effect	
4	300x300x5.6	No visible effect	
5	300x300x5.4	No visible effect	

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x5.2	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300x300x5.3	Stain Removed by Water	
3	300x300x5.5	Stain Removed by Water	
4	300x300x5.6	Stain Removed by Water	
5	300x300x5.4	Stain Removed by Water	

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/RG/16/2020-2021 Date: 13.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency **Sri.Rangashamaiah,** Contractor, Bangalore.
Name of the work Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2021	13.01.2021	8.124	332.5	14.78
2	06.01.2021	13.01.2021	8.160	345.6	15.36
3	06.01.2021	13.01.2021	8.152	352.1	15.65

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2021	13.01.2021	8.166	508.9	22.62
2	06.01.2021	13.01.2021	8.182	522.3	23.21
3	06.01.2021	13.01.2021	8.197	536.0	23.82

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2021	13.01.2021	8.152	338.5	15.04
2	06.01.2021	13.01.2021	8.135	341.6	15.18
3	06.01.2021	13.01.2021	8.164	355.7	15.81

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2021	13.01.2021	8.167	505.8	22.48
2	06.01.2021	13.01.2021	8.011	527.9	23.46
3	06.01.2021	13.01.2021	8.139	533.4	23.71

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2021	13.01.2021	8.199	339.2	15.08
2	06.01.2021	13.01.2021	8.164	348.7	15.50
3	06.01.2021	13.01.2021	8.132	356.8	15.86

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2021	13.01.2021	8.035	502.3	22.32
2	06.01.2021	13.01.2021	8.064	526.9	23.42
3	06.01.2021	13.01.2021	8.192	532.1	23.65

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date: 19.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2021	19.01.2021	8.199	402.2	17.88
2	12.01.2021	19.01.2021	8.064	416.8	18.52
3	12.01.2021	19.01.2021	8.137	432.5	19.22

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Job No.: CQCE/BBMP/RG/16/2020-2021 Date: 09.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	**Sri.Rangashamaiah,** Contractor, Bangalore.
Name of the work	Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2021	09.02.2021	8.031	609.8	27.10
2	12.01.2021	09.02.2021	8.165	622.3	27.66
3	12.01.2021	09.02.2021	8.124	635.4	28.24

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Lab No: CQCE/BBMP/RG/16/2020-2021 Date: 19.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2021	19.01.2021	8.194	406.9	18.08
2	12.01.2021	19.01.2021	8.176	427.3	18.99
3	12.01.2021	19.01.2021	8.112	433.1	19.25

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2021	09.02.2021	8.016	616.8	27.41
2	12.01.2021	09.02.2021	8.143	627.4	27.88
3	12.01.2021	09.02.2021	8.025	635.1	28.23

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2021	19.01.2021	8.112	404.9	18.00
2	12.01.2021	19.01.2021	8.167	426.3	18.95
3	12.01.2021	19.01.2021	8.143	434.8	19.32

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.01.2021	09.02.2021	8.005	605.8	26.92
2	12.01.2021	09.02.2021	8.169	629.3	27.97
3	12.01.2021	09.02.2021	8.134	633.4	28.15

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CIVIL ONE ENGINEERS AND CONSULTANTS

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An ISO 9001: 2015 Certified Company

Job No.: CQCE/BBMP/RG/16/2020-2021 23.12.2020

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri.Rangashamaiah,** Contractor, Bangalore.
Name of Work : Renovation and Upgradation of Ambedkar Samudaya Bhavana in Sidartha Nagar in Ward No.16, BBMP, Bangalore
Sample Supplied by: :AGENCY
BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007
Sample Identification: CPVC pipe 50mm dia
Date of Testing 22.12.2020 to 23.12.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	53.9	Min 53.7 mm Max 54.3 mm
4	Density	1555 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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For CIVIL ONE ENGINEERS & CONSULTANTS

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